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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,654	02/20/2008	Koichiro Ono	6235-75996-01	6586
	7590 05/26/200 SPARKMAN, LLP	9	EXAMINER	
121 SW SALM	· · · · · · · · · · · · · · · · · · ·		BRISTOL, LYNN ANNE	
SUITE 1600 PORTLAND, OR 97204			ART UNIT	PAPER NUMBER
			1643	
			MAIL DATE	DELIVERY MODE
			05/26/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/582,654	ONO ET AL.				
Office Action Summary	Examiner	Art Unit				
	LYNN BRISTOL	1643				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
3) Since this application is in condition for allowan	ice except for formal matters, pro	secution as to the	e merits is			
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-14 and 18-26</u> is/are pending in the a	application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-14 and 18-26</u> are subject to restricti	ion and/or election requirement.					
· · · · · · · · · · · · · · · · · · ·	·					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) \square objected to by the E	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of 	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National	Stage			
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P					
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

1. Claims 1-14 and 18-26 are all the pending claims for this application.

Restriction

2. Restriction is required under 35 U.S.C. 121 and 372.

The claims of the present application relate to an anti-TRAIL receptor antibody and a polynucleotide encoding an anti-TRAIL receptor antibody.

In assessing whether the requirements of unity of invention of an application are met, identification of the technical features that each solution to a technical problem contributes over the prior art (special technical features) must be made. If then a technical relationship between the solutions, involving one or more of the same technical features, can be recognized, the requirements of unity of invention are said to be met.

An anti-TRAIL receptor antibody was already known before the priority date of the present application. For example, van Geelen et al. (Br J Cancer. 2003 Jul 21; 89(2):363-73) and Ohtsuka et al. (Oncogene 22:2034-2044 (2003 Apr 3)) teach anti-TRAIL-R1 thru –R4 antibodies and anti-TRAIL-R1 and -R2 antibodies, respectively.

3. This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. The resulting separate inventions, as presently identified, have been grouped according to the order in which they have been claimed.

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4. In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-14 and 26, drawn to an anti-TRAIL receptor antibody and a pharmaceutical composition comprising the antibody.

Group II, claim(s) 18-21, drawn to any antibody having three binding sites for any antigen and where the antibody is an agonist for inducing apoptosis in any cell.

Group III, claim(s) 22-25, drawn to a polynucleotide encoding an anti-TRAIL receptor antibody, vectors comprising the polynucleotide, and a host cell transfected with the vector.

- 5. As no technical features can be distinguished which, in light of the prior art, could be regarded as special technical features on which a unifying concept could be based, there is no single inventive concept underlying the plurality of claimed inventions.
- 6. Three different products are presented in Groups I-III. These three products do not share a common property or activity and do not share common core structures. Prior to the concomitant isolation and expression of the sequence of interest there may be journal articles devoted solely to antibodies which would not have described the polynucleotide. Searching, therefore is not coextensive. In addition, the antibody claims of Group I include 4 different antibody sequences directed to an anti-TRAIL receptor. Searching of the structure of SEQ ID NO:2 would not provide the results for SEQ ID NO:4, 6 or 8. Similarly, there may be journal articles devoted solely to, for example, the polypeptide of SEQ ID NO:2, which would not have described SEQ ID NO:4, 6 or 8. This search requires an extensive analysis of the art retrieved in a sequence search and will require an in-depth analysis of technical literature. The antibody claims of Group II

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encompass any antibody having at least three binding sites (which is not required of the antibody of Group I), the target antigen of the antibody is unlimited and the antibody must be functionalized to induce apoptosis. The polynucleotide claims of Group III encode the antibody of Group I and therefore do not bear a structure function relationship with the antibodies of Group I. Thus the inventions of Groups I-III are patentably distinct.

7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Election of Species

8. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species (TRAIL receptor (Group I)) are as follows:

- a) TRAIL 1
- b) TRAIL 2

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply

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must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

9. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species (antibody amino acid sequence (Group I)) are as follows:

- a) SEQ ID NO: 2
- b) SEQ ID NO: 4
- c) SEQ ID NO: 6
- d) SEQ ID NO: 8

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynn Bristol whose telephone number is 571-272-6883. The examiner can normally be reached on 8:00-4:00, Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Helms can be reached on 571-272-0832. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Lynn A. Bristol/ Examiner, Art Unit 1643 Temporary Full Signatory Authority